

posteriorly, it covers more than one-third of the interfemoral membrane; beneath, it extends to the elbow, but does not occupy so much of the interfemoral membrane which is covered for nearly half its surface with a very few short hairs arising from the transverse dotted lines. Above, black for three-fourths its length, the remaining portion to the tip light yellowish brown or dun colour; beneath, black for the same extent, the ends of the hairs paler than above, becoming white on the belly and pubes.

Inner incisors long and acutely pointed, outer ones short and close to their bases; anterior upper premolars very minute, concealed between the canine and second premolar, and not visible without the aid of a lens.

PIPISTRELLUS COROMANDELICUS.

Vespertilio Coromandelicus, F. Cuvier.

Several spirit specimens of immature individuals referable to this species.

VESPERTILIO MURINUS, Geoff.

A well preserved dried specimen answering in all respects to the description given in Temminck's Monograph;* above, white with a reddish tinge, beneath pure white; base of the hairs, above and beneath, dusky.

~~~~~

LIST OF ALGÆ COLLECTED BY MR. S. KURZ IN BURMA AND ADJACENT ISLANDS,—by DR. G. v. MARTENS, in *Stuttgart.*  
*Communicated by MR. S. KURZ.†*

[Received 15th July, 1871. Read August, 1871.]

I.—PALMELLACEÆ.

PALMELLEÆ.

MICROCYSTIS, Kg.

[1. *M. aeruginosa*, Kg.—In a pool of sweet water in Kolodyne valley, Arracan. Octob.].—S. K.

\* Vol. ii, p. 178.

† I have arranged the numerous determinations of Burmese Algæ, lately transmitted to me by Dr. v. Martens, according to that author's "Tage der Preussischen Expedition nach Ost-Asien." For any defects in the arrangement of this List, as well as for a few additional species entered between

## PALMELLA, Lyngb.

1. *P. subsalsa*, Martens, strato indeterminato effuso; cellulis dense aggregatis 1/200 ad 1/300 lin. crassis, homogeneis, globosis v. ellipticis, lutescentibus; membranula achromatica.—Arracan, on periodically submerged mud of the Kolodyne river, in brackish water. Octob. (K. 1960).

## GLÆOCAPSA, Kg.

1. *G. luteo-fusca*, Martens, strato compacto, late expanso; vesiculis primariis evanescentibus; secundariis 1/200 ad 1/180 lin. crassis, globosis, lutescentibus, nucleis ellipticis, solitariis v. geminatis, pallide viridibus, 1/300 lin. longis, 1/500 lin. latis.

Pegu, Northern Yomah, along the dried up bed of Mayzelee Choung. January.—(K. 1854).—Sweet water.

II.—*NOSTOCHINEÆ.*

## OSCILLARIEÆ.

## OSCILLARIA, VAUCH.

1. *O. granulosa*, Martens, pulcherrime æruginea; filis 1/300 lin. crassis, rigidis, rectis, apice parum attenuatis; articulis diametro subæqualibus ubique granulosis, geniculis hyalinis non punctatis.—Karen country, E. of Sittang, Toukyeghat, in Pywoon Choung, covering stones in dense dark green patches. March. (K. 1860).—Sweet water.

2. *O. brevis*, Kg.—Pegu, Southern Yomah, near Kya-eng, in a little jungle-creek. Decemb.—Sweet water.

3. *O. viridis*, Vauch. = *tenuis*, Ag.—Arracan, Akyab, in stagnant waters, floating. Octob. (K. 1952).—Sweet water.

4. *O. Grateloupii*, Bory.—Arracan, with the former. Sweet water.

## PHORMIDIUM, Kg.

1. *Ph. papyrinum*, Kg.—Arracan, on rocks in clear torrents, Boronga Island. Octob. (K. 1967).—Sweet water.

brackets with my initials, I, therefore, am alone answerable. *Diatomaceæ* and the greater number of *Desmidiaceæ* are not represented, but I hope to have an opportunity of collecting further materials for a more complete list than the present one. The numbers between brackets and the letter "K." have reference to my collection of *Crypt. Cellulares*. The seaweeds commonly eaten by the Burmans, are *Gigartina spinosa*, Grev., (*agar agar* of the Malays), and *Sphaerococcus lichenoides*, Ag., (Ceylon moss of commerce). These are usually called by the Burmans *Kyook pién*.

[2. *Ph. oryzetorum*, Martens in Proceed. As. Soc. Beng., January, 1870, p. 12.—Arracan, low lands, frequent on stagnant tanks and submerged rice-fields, floating. Octob.].—S. K. Sweet water.

## LEPTOTHRICHEÆ.

## LEPTOTHRIX, Kg.

1. *L. ochracea*, Kg.—Karen country, E. of Tounggoo, Toukyeghat, Choungmenah-hills, in little choungs, floating. March. (K. 1852).—Sweet water.

## LYNGBYEÆ.

## LYNGBYA, Ag.

1. *L. majuscula*, Dillw.—Karen country, E. of Tounggoo, not unfrequent in the jungle-choungs. Febr. (K. 1858 et 1859).—Sweet water.

## SCYTONEMEÆ.

## SCYTONEMA, Ag.

1. *Sc. Peguanum*, Martens, cespite cupreo, lineam alto; filis basi connatis, parce ramosis, cum vagina 1/180 ad 1/150 lin., sine vagina 1/220 ad 1/200 lin. crassis, apice attenuatis hyalinis, vaginis arctis lævibus; articulis diametro subæqualibus, pallide viridibus.

Pegu, Southern Yomah, Tyoben, on the bark of trees. Decemb. (K. 1855).

2. *Sc. aureum*, Menegh.—Karen country, E. of Tounggoo, Toukyeghat, Choungmenah-hills, in the hill Eng.-Forests, on rocks, at from 2500 to 3000 feet elevation. Febr. (K. 1857).—Sweet water.

## III.—CONFERVACEÆ.

## CONFERVEÆ.

## CONFERVA, L.

1. *C. bombycina*,  $\epsilon$ . *subæqualis*, Kg.—South Andaman, in the creeks above Watering Cove. Sweet water.

2. *C. fugacissima*, Roth.—South Andaman, in the creek above Watering Cove. June. (K. 1657). Sweet water.

## CHÆTOMORPHA, Kg.

1. *Ch. Indica*, Kg.—Arracan, Boronga Island, on other seaweeds in the crevices of sub-marine sandstone banks. Octob. (K. 1946).

## RHIZOCLONIUM, Kg.

1. *Rh. occidentale*, Kg.—Arracan, on sandstone rocks in the Kolodyne river, in mangrove swamps. Octob. (K. 1955).

## CLADOPHORA, Kg.

1. *Cl. scitula*, Suhr.—Arracan, Boronga Island, on other seaweeds. Octob. (K. 1953).  
 2. *C. Tranquebariensis*, Roth.—Pegu, Northern Yomah, in Tsoon-Choung. January. (K. 1846).

## CHROOLEPUS, Ag.

1. *Ch. villosum*, Kg.—Karen hills, E. of Sittang, Thayet-tchu Choung, on trees, &c., at from 2 to 3000 feet elevation.—March. (K. 1856).

## CAMPSOPOGON, Mont.

- [1. *C. Hookeri*, Mont.—Arracan, Akyab, in rivulets. Octob.] S. K.

## ZYGNEACEÆ.

## SPIROGYRA, Lk.

- [1. *Sp. elongata*, Kg.—Arracan, Akyab, in stagnant and gently flowing waters, not unfrequent. Octob.] S. K.  
 2. *Sp. nitida*, Dillw.—Arracan, Akyab and Kolodyne valley, rather frequent in stagnant waters. Octob.; Pegu, Southern Yomah, Pongleen. Jan. (K. 1848).  
 3. *Sp. decimina*, Lk.—Arracan, Akyab, in sweet water creeks. Decemb. (K. 1851).  
 4. *Sp. jugalis*, Kg.—Arracan, Akyab, in stagnant waters, floating, along with *Oscillaria viridis*, &c. Octob.  
 5. *Sp. subaequa*, Kg.—Arracan, Kolodyne-valley, in stagnant waters. Octob. (K. 1956).

## ULVACEAE.

## ULVA, L.

1. *Ul. oxycocca*, Kg.—Arracan, frequent on the sandstone-layers along the shores opposite Akyab. Octob. (K. 1958).

## PHYCOSERIS, Kg.

1. *Ph. lobata*, Kg.—South Andaman, on sandstone rocks at Camping Bay.—Apr. (K. 1612).

## ENTEROMORPHA, Lk.

1. *E. intestinalis*, Lk., var. *a. capillaris*. Kg.—South Andaman, in brackish swamps of the mangrove jungles.—Apr. (K. 1697).
2. *E. complanata*, Kg.—South Andaman, Ross Island, on rocks. Apr. (K. 1592); also Arracan, Boronga Island.
3. *E. polyclados*, Kg.—Andamans, Ross Island and Middle Straits, on rocks. Apr. May.
4. *E. compressa*, Lk.—Arracan, frequent on the sandstone banks of Boronga Island. Octob. K. 1945.

## PROTODERMACEÆ.

## INODERMA, Kg.

1. *I. fontanum*, Kg.—Andamans, Labyrinth Archipelago, on Termoklee Island, in sweet water pools of dried up creeks.—May. (K. 1639).

## IV.—SIPHONÆÆ.

## VAUCHERIEÆ.

## VAUCHERIA, DC.

1. *V. clavata*, DC.—Andaman Islands, in sweet waters.
2. *V. sessilis*, DC.—Karen country, Tonkyeghat, in choungs. Febr. (K. 1853).
3. *V. submarina*, Berk.—Arracan, Kolodyne river, in brackish water on sandstone rocks of mangrove swamps, clothing the rocks in dense green patches. Octob. (K. 1962).

## BRYOPSIS, Lx.

1. *Br. tenuissima*, Notaris.—South Andaman, Camping Bay, on sandstone rocks. May. (K. 1593).
2. *Br. pachynema*, Martens, Tage d. Preuss. Exped. Ost-Asien., 24, t. iv, f. 2. (*Valonia confervoides*, Harv., Alg. Ceylon).—South Andaman, in mangrove swamps towards Birdnest Cape. Apr. (K. 1606).

## CODIÆÆ.

## HALIMEDA, Lx.

1. *H. discoidea*, Dene.—South Andaman, &c. Frequent on coral reefs all along the coast. (K. 1691).
2. *H. Opuntia*, Lx.—South Andaman, only ejected from the sea; Pegu, Diamond Island (K. 1651).



3. *H. cuneata*, Kg.—Andamans, Labyrinth Archipelago, Termoklee Island (K. 1693).

#### V.—PHÆOSPOREÆ.

##### ECTOCARPEÆ.

##### SPHACELARIA, Lyngb.

1. *Sph. furcigera*, Kg.—South Andaman, Camping Bay, parasitic on *Sargassum aquifolium*.—Apr. (K. 1689/6).

#### VI.—FUCACEÆ.

##### SARGASSEÆ.

##### SARGASSUM, Ag.

1. *S. microcystum*, Kg. ? ?.—South Andaman, very frequent all along the coast on rocks and banks, but nowhere full grown (K. 1698).
2. *S. aquifolium*, Ag.—South Andaman, Camping Bay. (K. 1689).
3. *S. Wightii*, Grev.—South Andaman, at South Corbyn's Cove. (K. 1690).

##### TURBINARIA, Bory.

1. *T. triquetra*, Y. Ag.—South Andaman, at South Corbyn's Cove, ejected from the sea. (K. 1694).—Nicobars.
2. *T. condensata*, Sonder.—South Andaman, at South Corbyn's Cove, ejected from the sea. (K. 1962).

##### CARPACANTHUS, Kg.

1. *C. ilicifolius*, (Turner, vol. I, t. 51).—Andamans, Labyrinth Archipelago, near Termoklee Island, in deep sea.

#### VII.—FLORIDEÆ.

##### BATRACHOSPERMEÆ.

##### BATRACHOSPERMUM, Roth.

1. *B. Guianense*, Montg.—In the creeks above Watering Cove, South Andaman.—June. (K. 1658).
2. *B. moniliforme*, Roth.—Pegu, Southern Yomah, in choungs near Kya-ëng. Decemb. (K. 1847).

##### DICTYOTELÆ.

##### ZONARIA, Ag.

1. *Z. Fraseri*, Grev.—Frequent on rocks and sandstone banks

not only along the coast of South Andaman, (K. 1590), but also that of Arracan. (K. 1944).

## CERAMIEÆ.

## HORMOCERAS, Kg.

1. *H. flaccidum*, Harv.—Arracan, in crevices of marine sandstone rocks on Boronga Island. Octob. (K. 1941).

## CORALLINEÆ.

## AMPHIROA, Lx.

1. *A. Tribulus*, Lx.—Pegu, Diamond Island, thrown out from the sea (K. 1651).—Hitherto known only from St. Croix, Antilles.

2. *A. fragilissima*, Lx.—South Andaman, at Camping Bay (K. 1595).

## JANIA, Lx.

1. *J. adhærens*, Lx.—South Andaman, coral reefs at Camping Bay.

2. *J. fastigiata*, Harvey.—South Andaman, at Camping Bay, (K. 1659) and at South Corbyn's Cove (K. 1653).

## GALAXAUREÆ.

## GALAXAURA, Lx.

1. *G. plicata*, Kg.—South Andaman. Frequent on coral reefs and often ejected from the sea along the beach (K. 1591).

2. *G. marginata*, Lx.—South Andaman, Ross Island (K. 1611).

3. *G. tomentosa*, Kg.—South Andaman, at Camping Bay (K. 1637).

4. *G. oblongata*, Lx.—South Andaman, Ross Island. (K. 1699).

## GYMNOPLHCEACEÆ.

## HALYMENIA, Ag.

1. *H. tenuispina*, Kg. (Tab. Phyc. vol. xvii, t. 2, f. 1).—Andamans, Labyrinth Archipelago, Termoklee Island, ejected from the sea, parasitic on other sea-weeds. (K. 1695).

[NB. *Dumontia robusta*,  $\beta$ . *Wightii*, J. Ag. is found by Wichura, in Bay of Bengal, and most likely occurs also in the Burmese waters] S. K.

## GIGARTINEÆ.

## GRATELOUPIA, Ag.

1. *G. furcata*, Kg.—Arracan, marine sandstone banks of Boronga Island. Octob. (K. 1939).

## GIGARTINA, Lx.

1. *G. spinosa*, Grev. (*Euchema spinosum*, Ag.; *Fucus lichenoides*, Willd., non L.).—Andamans, Termoklee Island. (K. 1696).—Edible.

## CHONDROCOCCUS, Kg.

1. *Ch. spinulosus*, Kg.—South Andaman, Ross Island, in sea. (K. 1594).

## CYSTOCLONEÆ.

## HYPNEA, Lx.

1. *H. spinella*, J. Ag.—Pegu, Diamond Island (K. 1619); Arracan, frequent on marine sandstone banks.—(K. 1948—49).
2. *H. musciformis*, Lx.—Pegu, Diamond Island. (K. 1640).
3. *H. divaricata*, Grev.—Pegu, Diamond Island. (K. 1673).

## GELIDIEÆ.

## ACROCARPUS, Kg.

1. *A. intricatus*, Kg.—South Andaman, Camping Bay and Termoklee Island, on the roots and stems of mangrove trees, as far as they are submerged during high water. (K. 1608).
2. *A. pusillus*, Kg.—Arracan, Boronga Island, on marine sandstone banks. Octob. (K. 1951).

## SPHÆROCOCCEÆ.

## SPHÆROCOCCUS, L.

1. *Sph. multipartitus*,  $\epsilon$ . *lichenoides*, Ag.—(*Fucus æruginosus*, Turner, vol. III, t. 147, f. ).—South Andaman, frequently ejected by the sea all along the coast.
2. *Sph. lichenoides*, L.—South Andaman, frequently ejected by the sea; Termoklee Island, (K. 1652).—Edible.
3. *Sph. Lemania*, Kg.—Arracan, on marine sandstone banks, frequent. Octob. (K. 1942).
4. *Sph. confervoides*, Ag.—Arracan, common on the rocky shores of Boronga Island. Octob. (K. 1943).
5. *Sph. dumosus*, Kg.—Arracan, marine sandstone banks of Boronga Island. Octob. (K. 1947).

## TYLOCARPEÆ.

## GYMNOGRONGUS, Mart.

1. *G. pygmaeus*, Grev.—Arracan, on marine sandstone banks of Boronga Island. Octob. (K. 1950).



## POLYSIPHONIEÆ.

## POLYSIPHONIA, Grev.

1. *P. rufo-lanosa*, Harvey.—Arracan, Akyab, on grasses, &c., in brackish creeks of western coast. Decemb. (K. 1849).

## LAURENCIEÆ.

## LAURENCIA, Lx.

1. *L. obtusa*, Lx.—Arracan, on marine sandstone banks of Boronga Island. Octob. (K. 1946).

## ACANTHOPHORA, Lx.

1. *A. Thierryi*, Lx.—Arracan, rare on the marine sandstone banks of Boronga Island. Octob. (K. 1954).

## DELESSERIEÆ.

## AGLAOPHYLLUM, Mont.

1. *A. multipartitum*, Kg.—South Andaman, Camping Bay. (K. 1589).

## HYPOGLOSSUM, Kg.

1. *H. Vicillardi*, Kg.—Arracan, frequent on sandstone rocks and old branches, or on the submerged mangrove stems, not only in the tidal channels of Kolodyne-river, but also along the sea coast. Octob. (K. 1963).—Perhaps only a juvenile state of *H. Leprierii*.

